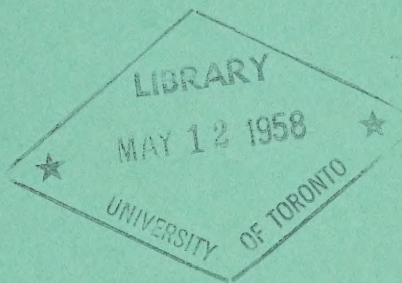
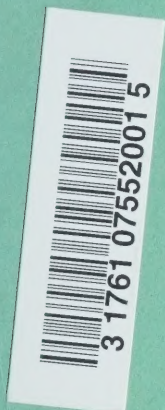


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(Canada  
Department of Northern Affairs and National Resources  
FORESTRY BRANCH)



**LIST OF PUBLICATIONS**  
**OF THE**  
**FOREST PRODUCTS LABORATORIES OF CANADA**  
**OTTAWA** **VANCOUVER**

REVISED, APRIL 1958



FOREST PRODUCTS LABORATORIES OF CANADA  
Chief - J. H. Jenkins

Superintendent, Ottawa Laboratory  
H. Schwartz

Superintendent, Vancouver Laboratory  
K.G. Fensom

Cat. No R52-257

## FOREWORD

The Forest Products Laboratories of Canada, are a Division of the Forestry Branch of the Department of Northern Affairs and National Resources, Canada. Two laboratories are in operation, one in Ottawa, Ontario, the other at Vancouver, British Columbia.

Research at both laboratories follows generally similar lines and is concerned with the determination of the mechanical, physical, and chemical properties of Canadian commercial timber species. Research and investigations extend to the fields of conversion and utilization. All research work - fundamental and applied - is planned for the obtention of data and information essential to an informed utilization of wood.

A laboratory was first established in Montreal in 1913, and the Vancouver unit began operations in 1917. In 1927 the Montreal unit was transferred to Ottawa, where it has since been located.

During the more than forty years during which forest products research has been carried on by the F.P.L. of C., an extensive and comprehensive record of data and information has been accumulated.

As data have become available, and whenever their importance has been deemed sufficient, they have served as the basis of reports of various types. This has been done in order to make widely available the results obtained through research, so that they could serve as basic information for the planning of industrial improvements and developments.

This is the continuing policy of the F.P.L. of C., and new publications are prepared and released whenever warranted.





## LIST OF PUBLICATIONS

Publications and reports of the Forest Products Laboratories of Canada (which include the two research units - Forest Products Laboratory, Ottawa, and the Forest Products Laboratory, Vancouver) cover all phases of forest products research. This list includes printed publications, mimeographed reports and reprints of articles and papers, available for distribution. It excludes (1) papers and articles in periodicals for which copies are not available for distribution, and (2) publications for which distribution copies are no longer available.

The publications are listed under the following subject headings:

1. Mechanical Properties and Laminated Construction.
2. Plywood, Adhesives, and Dielectric Heating.
3. Containers and Packaging.
4. Wood Preservation.
5. Wood Pathology.
6. Paints and Protective Coatings.
7. Wood Structure.
8. Wood Uses, Manufacture, and Waste Utilization.
9. Wood as Fuel.
10. Lumber Seasoning.
11. Wood Chemistry.
12. Miscellaneous.

Publications printed in English are shown in Part A; those in French are listed in Part B.

The origin of each publication is indicated by the symbol (O) for the Ottawa Laboratory and (V) for the Vancouver Laboratory. In the case of bulletins, circulars, and reprints, this symbol is placed after the title but with the numbered mimeographed reports, the symbol is shown as a prefix to the report number. The series of numbered circulars has been discontinued.

Requests for publications, other than those for which there is a charge, should be addressed to:


Forest Products Laboratory,  
Department of Northern Affairs and  
National Resources,  
Ottawa, Ontario.

or

Forest Products Laboratory,  
c/o University of British Columbia,  
Vancouver 8, B.C.

Publications for which there is a charge are marked with an asterisk. Requests for these publications, together with cheque or money order payable to the Receiver General of Canada, should be addressed to:

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PART A - ENGLISH PUBLICATIONS

1. Mechanical Properties and Laminated Construction

- Bulletin 104 Effect of Exposure on Douglas Fir Crossarms, W.E. Wakefield, 1952 - (O).
- " 119 Determination of the Strength Properties and Physical Characteristics of Canadian Woods, W.E. Wakefield, 1956 - (O).
- Circular 28 Strength Tests of Creosoted Douglas Fir Beams, J.F. Harkom and G.H. Rochester, 1930 - (O).
- " 29 Strength Tests of Creosoted Douglas Fir Railway Ties, J.F. Harkom and J.B. Alexander, 1931 - (O-V).
- " 31 Strength of Telephone Poles, Eastern Cedar, Red Pine and Jack Pine - Revised 1947 - (O).
- " 34 Strength and Spike-Retention Properties of Jack Pine Ties Affected with Red Stain and Red Rot, G.H. Rochester, 1932 - (O).
- " 37 Red Stain in Jack Pine, Clara W. Fritz and G.H. Rochester, 1933 - (O).
- " 41 Western Red Cedar: Significance of its Heartwood Colourations, H.W. Eades and J.B. Alexander, 1934 - (V).
- " 46 Western Hemlock Ties, J.B. Alexander, 1936 - (V).
- " 51 Comparison of the Mechanical and Physical Properties of the Heartwood and Sapwood of Yellow Birch, W.E. Wakefield - (O).
- " 53 Brown-Stain in Sugar Maple, its Effect on Mechanical and Physical Properties, W.E. Wakefield, 1938 - (O).
- " 55 Wooden Tanks in Industry, M.J. Brophy, 1939 - (O).
- " 63 Red Stain and Pocket Rot in Jack Pine - Their Effect on Strength and Serviceability of the Wood, 1948 - (O).
- " 64 Effect of Kiln-Drying Upon the Strength of Western Hemlock, J.B. Alexander and C.F. Archer, 1947 - (V).
- " 65 Strength of Jack Pine Poles Infected with Pocket Rot, D.E. Kennedy and W.E. Wakefield, 1948 - (O).

Tech. Note 3- Strength and Related Properties of Wood Grown in Canada.

- \* Mechanical and Physical Properties of Canadian Woods, W.E. Wakefield - (Chapter 4 of the book "Canadian Woods: Their Properties and Uses", 1951). Price 25¢. (O).
- \* Glued Laminated Construction and Timber Fastenings, D.E. Kennedy and J.M. Rudnicki - (Chapters 11 and 13 of book "Canadian Woods: Their Properties and Uses", 1951). Price 25¢. (O).
- O-111 - Strength and Spike Holding Quality of Jack Pine Ties Containing Red Rot, D.E. Kennedy, 1947.
- O-138 - Trip-L-Grip Framing Anchors, J.M. Rudnicki and D.E. Kennedy, 1948.
- O-152 - Construction and Testing of a Glued Laminated Wooden Arch of 47-foot Span, D.E. Kennedy, 1950.
- V-1014 - Test Loading of a Composite Concrete Timber Deck Bridge, J.B. Alexander, 1953.
- V-1016 - Dimensional Changes in Poles Caused by Seasoning, W.J. Smith, 1954.
- V-1021 - The Strength of Mountain Douglas Fir Telephone Poles, W.M. McGowan, 1956.
- Worm Holes in Jack Pine - D.E. Kennedy. (Reprinted from Timber of Canada, Jan. 1957) - (O).
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- Physical and Mechanical Properties of Second-Growth Douglas Fir, J.B. Alexander. (Reprint A.S.T.M. Bulletin 169, Oct. 1950) - (V).
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- " 39 The Design of Wooden Boxes, R.S. Millett 1948 - (O).
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- O-174 - Treatment of Fence Posts of Non-Durable Species with Modern Water-Borne Preservatives by the Butt Diffusion Method, J. Krzyzewski. May, 1956.
- O-175 - Penetration and Exudation of Oil in Sections of Pine Poles Treated with Creosote-Pentachlorophenol Mixtures. H.P. Sedziak, 1956.

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" 116 Sap Stain and Mould Prevention on British Columbia Softwoods, H.W. Eades, 1956 - (V).

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" 53 Decay in Red-Stained Jack Pine Ties Under Service Conditions, C.W. Fritz and E.A. Atwell, 1941 - (O).



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" 63 Red Stain and Pocket Rot in Jack Pine - Their Effect on Strength and Serviceability of the Wood, 1948 - (O).

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- " 100 Effects of Chemical Treatment of Pulpwood Trees, D.C. McIntosh, 1951 - (O).
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- " 99 Factors Influencing the Manufacture of Sawlogs into Lumber in Eastern Canada, G.E. Bell, 1951 - (O).
- " 103 Wood Waste Utilization in Canada, J.H. Jenkins. (Presented at Sixth British Commonwealth Forestry Conference, 1952).
- " 108 Use of Sawmill Waste for Pulp in Eastern Canada, G.E. Bell, 1953 - (O).
- " 109 Utilization of Sawmill Waste in the Southern Coast Region of British Columbia, F.W. Guernsey, 1953 - (V).
- " 114 Yellow Cedar: Its Characteristics, Properties and Uses, R.S. Perry, 1954 - (V).
- " 115 Logging Waste in Eastern Canada, J.A. Doyle, 1955 - (O).
- Circular 35 Effect of Seasoning on the Buoyancy of Logs, K.G. Fensom and E.S. Fellows, 1932 - (O).
- Tech. Note 5- Effect of Tree Size of Spruce and Balsam Fir on Harvesting and Conversion to Lumber in Nova Scotia, J.A. Doyle - (O).
- Tech. Note 6- Wood Residues as Pulp Material and Developments in Wallboard Production, J.A. Doyle and F. Bender - (O).
- Tech. Note 7- A Pulp Chip Program to Utilize Sawmill Residue, G.E. Bell - (O).
- O-169 - Use of Short-Log Bolters, W.W. Calvert, 1953.
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- V-1011 - Properties and Uses of Black Cottonwood, K.W. Rymer and F.W. Guernsey, 1951.
- V-1013 - Sawmill Residue in the Prince George Area of British Columbia, C.F. McBride, 1952.
- V-1015 - Logging and Milling Balsam, C.F. McBride and G.R.W. Nixon, 1954.

- V-1017 - Breakage and Other Losses in Logging on the British Columbia Coast, G.R.W. Nixon, 1955.
- V-1020 - Factors Affecting Lumber Recovery from Spruce in the Prince George Area of British Columbia, C.F. McBride, 1956.
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- Circular 47 Wood and Charcoal as Motor Fuel, J.H. Jenkins and F.W. Guernsey, 1936 - (V).
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- O-89 - Heating Value of Wood Fuels, J.D. Hale, 1933. (Reissued, 1952).
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- " 111 Kiln-Drying of British Columbia Lumber, J.H. Jenkins and F.W. Guernsey, 1954 - (V).
- Circular 52 Change in Moisture Content of Yard-Piled Softwood Lumber in Eastern Canada, E.S. Fellows, 1937 - (O).
- Tech. Note 2- High-Temperature Kiln-Drying of Eastern Canadian Softwoods, J.L. Ladell - (O).
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- V-104 - Air-Seasoning of Timbers, Poles and Ties. A Study of the Air-Seasoning Rate and Moisture Gradient in the Southern Coast Region of British Columbia, 1950.
- V-1012 - Kiln-Drying Schedules for British Columbia Woods, C.F. Archer, 1952.



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